## UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	9-13528-202US
First Inventor	Hong ZHANG
Title	METHOD AND APPARATUS FOR DERIVING OPTIMAL PATHS THROUGH A NETWORK SUBJECT TO A
Express Mail Label No.	

See MPEP (	APPLICATION ELEMENTS chapter 600 concerning utility patent application conter	ADDRES	SS TO: Commissi P.O. Box	Patent Application loner for Patents 1450 a VA 22313-1450	^
2. Application Application Application Application Application See 37   3. Specification Construction Application	ransmittal Form (e.g., PTO/SB/17)  it an original and a duplicate for fee processing)  cant claims small entity status.  it CFR 1.27.  fication [Total Pages] 37  red arrangement set forth below)  criptive title of the invention  s Reference to Related Applications  ment Regarding Fed sponsored R & D  rence to sequence listing, a table,  computer program listing, appendix  ground of the Invention  Summary of the Invention  Description of the Drawings (if filed)  illed Description  n(s)	8. Nucle (if app. ] a b	CD-ROM or CD-R in duplicomputer Program (Apperotide and/or Amino Acidilicable, all necessary) Computer Readable Specification Seque i. CD-ROM or C ii. Paper Statements verifying	icate, large table or endix) Sequence Submission Form (CRF)	22782 U.S. PTD 10/787107
- Abstra 4.	ract of the Disclosure ing(s) (35 U.S.C. 113) [Total Sheets3	9.	Assignment Papers (cor 37 CFR 3.73(b) Statems (when there is an assign English Translation Doc Information Disclosure Statement (IDS)/PTO-1- Preliminary Amendment Return Receipt Postcard (Should be specifically i Certified Copy of Priority (if foreign priority is clain Nonpublication Request (b)(2)(B)(i). Applicant m or its equivalent.	ver sheet & document(s)) ent Power of Attorney eument (if applicable) 449 Copies of ID 449 Citations t d (MPEP 503) itemized) y Document(s) med) t under 35 U.S.C. 122 ust attach form PTO/SB/3	5
Continuation  Divisional  Continuation-in-part (CIP)  of prior application No.:  Prior application information:  Examiner  For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.  The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.					
		ESPONDENCE AD		oution parts.	-
X Custon	mer Number: 02098	38	OR Corre	espondence address below	v
Name	Ogilvy Renault				
Address	Suite 1600				
City	1981 McGill College Avenue	State		7:n Coda	
Country	Montreal		10 700 0004	Zip Code H3A 2Y	
	Canada	1 10	13-780-8681	013-230	)-6706
Name (Print/Ty Signature	Max R. Wood	Registratio	on No. (Attorney/Agent)		
July racus &	1 34 - 11 1		• • •	Date   Echange 26	2004

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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EEE TOANGMITTAL			Complete if Known					
FEE TRANSMITTAI	<b>-</b>	Application Number						
for EV 2004		Filing Date						
for FY 2004		First Named Inventor		itor	Hong ZHANG			
Effective 10/01/2003. Patent fees are subject to annual revision.		Exam	iner Na	ame ·				
Applicant claims small entity status. See 37 CFR 1.27		Art Ur	nit			<del></del>		
TOTAL AMOUNT OF PAYMENT (\$) 828			ey Do	cket N	io	9-13528-202US	<del></del>	
METHOD OF PAYMENT (check of that apply)		7 111011						
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Check Credit card Money Other None	3. ADDITIONAL FEES Large Entity   Small Entity							
Deposit Account:	Fee	Fee	Fee	Fee		Fee Description		
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The Director is authorized to: (check all that apply)	1053		1053			English specification ing a request for ex parte reexam	nination	
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FEE CALCULATION	1251	110	2251	55	Exter	nsion for reply within first month		
1. BASIC FILING FEE	1252	420	2252	210	Exte	nsion for reply within second mor	nth	
Large Entity Small Entity	1253	950	2253	475	Exter	nsion for reply within third month		
Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Exte	nsion for reply within fourth monti	h	
1001 770 2001 385 Utility filing fee 770	1255	2,010	2255	1,005	Exte	nsion for reply within fifth month		
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notic	ce of Appeal	<u> </u>	
1003 530 2003 265 Plant filing fee	1402		2402		_	g a brief in support of an appeal		
1004 770 2004 385 Reissue filing fee	1403		2403		-	est for oral hearing		
1005 160 2005 80 Provisional filing fee	1451	1,510	1451			on to institute a public use proces	eding .	
SUBTOTAL (1) (\$) 770		110	2452 2453			on to revive - unavoidable		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330	2501			ion to revive - unintentional y issue fee (or reissue)	` <del>                                    </del>	
Fee from Ext <u>ra Claims below Fee Paid</u>	1502		2502			gn issue fee		
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Large Entity   Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806			nission of Information Disclosure		
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1202 18 2202 9 Claims in excess of 20	1809	770	2809	385	Filing	a submission after final rejection		
1201 86 2201 43 Independent claims in excess of 3 1203 290 2203 145 Multiple dependent claim, if not paid	4040	770	2040	205		CFR 1.129(a))		
1204 86 2204 43 ** Reissue independent claims	1810	770 •	2810	385	exam	each additional invention to be nined (37 CFR 1.129(b))		
over original patent	180	1 770	2801	385	Req	uest for Continued Examination (	(RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent		900	1802	900		quest for expedited examination design application		
10.10	Othe	r fee (sp	ecify) _	<u> </u>				
**or number previously paid, if greater; For Reissues, see above		luced by			ee Pa	id SUBTOTAL (3) (\$	5) 40	
SUBMITTED BY (Complete (# applicable))								
Name (Print/Type) Max R. Wood		Registra			40.3	388 Telephone 613-780		
Signature Du L L		(Attorney)	Agent)		, .		ry 26, 2004	

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USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



February 26, 2004

## **Mail Stop Patent Application**

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
U.S.A.

Sir:

Re:

**New United States Patent Application** 

Title:

METHOD AND APPARATUS DERIVING OPTIMAL PATHS

THROUGH A NETWORK SUBJECT TO A SUBSET

**SEQUENCE CONSTRAINT** 

Inventor(s):

Hong ZHANG et al.

Assignee:

**Nortel Networks Limited** 

Our File:

9-13528-202US

Transmitted herewith for filing is the patent application of:

**INVENTORS:** 

Hong ZHANG

Ravi RAVINDRAN

Peter ASHWOOD SMITH

Guo Qiang WANG

## TITLE OF THE INVENTION:

METHOD AND APPARATUS DERIVING OPTIMAL PATHS THROUGH A NETWORK SUBJECT TO A SUBSET

SEQUENCE CONSTRAINT

The following documents are enclosed:

- a) Utility Patent Application Transmittal PTO/SB/05
- b) Money Order No. 17268945-111



Fee Transmittal Form PTO/SB/17 (in duplicate) and Patent Application Fee Determination Record PTO/SB/06, covering:

Filing Fee Recording of Assignment		\$770.00 \$ 40.00
Total Number of Claims: 21 Claims in excess of 20 (1 @ \$18)	;	\$ 18.00
Т	otal :	\$828.00

- c) Specification/Claims/Abstract
- d) Formal Drawings (3 Sheets Figs. 1 5)
- e) Declaration (1 sheet) under 37 CFR 1.63, with Patent Application Data Sheet
- f) Power of Attorney
- g) Assignments in favor of Nortel Networks Limited with Recordation Form PTO-1595
- h) Information Disclosure Statement with PTO Form 1449
- i) Return receipt postcard.

The applicant/inventor(s) qualify for large entity status.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to our Account No. 19-5113.

Please note that the address of the agents for the applicant in this matter should be the Montreal address identified in the enclosed Power of Attorney. Correspondence may be directed to Max R. Wood at the Montreal address of Ogilvy Renault.

Respectfully submitted,

Reg. No. /40,388 Max R. Wood MRW:ma/Encls.